

State of Colorado
Oil and Gas Conservation Commission

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Document Number:

403276580

BRADENHEAD TEST REPORT

Step 1. Before opening any valves, record all tubing and casing pressures as found.

Step 2. Collect liquid and gas samples as required; consult Bradenhead Testing and Reporting Instructions and Guidance for field specific Orders at

<http://cogcc/reg.html#opguidance>

Step 3. Conduct Bradenhead test.

Step 4. Submit Form 17 within 10 days of test. Attach a wellbore diagram if not previously submitted or if wellbore configuration has changed since last wellbore diagram was submitted.

Step 5. Submit sample analytical results via Form 43.

1. OGCC Operator Number: 10775 3. BLM Lease No: _____

2. Name of Operator: KT RESOURCES LLC

4. API Number: 05-103-10130-00 5. Multiple completion? ☐ Yes ☒ No

6. Well Name: WRD FEDERAL Number: 30-21

7. Location (QtrQtr, Sec, Twp, Rng, Meridian): SWNW,30,2N,96W,6

8. County RIO BLANCO 9. Field Name: WHITE RIVER

10. Minerals: ☐ Fee ☐ State ☒ Federal ☐ Indian

11. Date of Test: 12/22/2022

12. Well Status: ☐ Flowing☒ Shut In ☐ Gas Lift☐ Pumping ☐ Injection☐ Clock/Intermitter☐ Plunger Lift

13. Number of Casing Strings:

☒ Two ☐ Three ☐ Liner?

14. EXISTING PRESSURES

Record all pressures as found	Tubing: 460 Fm: WMFK	Tubing: _____ Fm: _____	Prod Csg 460 Fm: WMFK	Intermediate Csg: _____	Surf. Csg 0
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BRADENHEAD TEST

With gauges monitoring production, intermediate casing and tubing pressures, open surface casing (Bradenhead) valve (if no intermediate casing, monitor only the production casing and tubing pressures.) Record pressures at five minute intervals.

Describe character of flow in "Bradenhead Flow" column: O = No Flow; C = Continuous; D = Down to 0; S = Surge; W = Whisper

Describe fluid type in "Bradenhead Fluid" column: H = Water H₂O; M = Mud; G = Gas; V = Vapor; L = Liquid Hydrocarbon; H & M = Water & Mud; H & G = Water & Gas; H & V = Water & Vapor; M & G = Mud & Gas; M & V = Mud & Vapor; G & V = Gas & Vapor; H & L = Water & Liquid Hydrocarbon; M & L = Mud & Liquid Hydrocarbon; G & L = Gas & Liquid Hydrocarbon; V & L = Vapor & Liquid Hydrocarbon; N = NoneBuried valve? ☒ Yes ☐ NoConfirmed open? ☒ Yes ☐ No

BRADENHEAD SAMPLE TAKEN?

☐ Yes ☒ No ☐ Gas ☐ Liquid

Character of Bradenhead fluid:

☐ Clear ☐ Fresh☐ Sulfur ☐ Salty ☐ Black

Other:(describe)

na

Elapsed Time (Min:Sec)	Fm: Tubing	Fm: Tubing:	Prod Csg PSIG	Intermedia Csg PSIG	Bradenhead Flow:	Bradenhead Fluid:
00:00	WMFK 460		460		NO FLOW	NONE
05:00	WMFK 460		460		NO FLOW	NONE
10:00	WMFK 460		460		NO FLOW	NONE
15:00	WMFK 460		460		NO FLOW	NONE
20:00	WMFK 460		460		NO FLOW	NONE
25:00	WMFK 460		460		NO FLOW	NONE
30:00	WMFK 460		460		NO FLOW	NONE

REQUIRED - Instantaneous Bradenhead Pressure at End of Test: 0 PSIG

INTERMEDIATE CASING TEST

With gauges monitoring production, intermediate casing and tubing pressures, open the intermediate casing valve. Record pressures at five minute intervals.

Describe character of flow in "Intermediate Flow" column: O = No Flow; C = Continuous; D = Down to 0; S = Surge; W = Whisper

Describe fluid type in "Intermediate Fluid" column: H = Water H₂O; M = Mud; G = Gas; V = Vapor; L = Liquid Hydrocarbon; H & M = Water & Mud; H & G = Water & Gas; H & V = Water & Vapor; M & G = Mud & Gas; M & V = Mud & Vapor; G & V = Gas & Vapor; H & L = Water & Liquid Hydrocarbon; M & L = Mud & Liquid Hydrocarbon; G & L = Gas & Liquid Hydrocarbon; V & L = Vapor & Liquid Hydrocarbon; N = None.

Buried valve? <input type="checkbox"/> Yes <input type="checkbox"/> No Confirmed open? <input type="checkbox"/> Yes <input type="checkbox"/> No	Elapsed Time (Min:Sec)	Fm: Tubing	Fm: Tubing:	Prod Csg PSIG	Intermediate Csg PSIG	Intermediate Flow:	Intermediate Fluid:
	00:00						
INTERMEDIATE SAMPLE TAKEN? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Gas <input type="checkbox"/> Liquid	05:00						
	10:00						
	15:00						
Character of Intermediate fluid: <input type="checkbox"/> Clear <input type="checkbox"/> Fresh <input type="checkbox"/> Sulfur <input type="checkbox"/> Salty <input type="checkbox"/> Black Other:(describe) _____	20:00						
	25:00						
	30:00						
	REQUIRED - Instantaneous Intermediate Casing Pressure at End of Test: _____ PSIG						

Comments: This bradenhead test has indicated that there is no communication between the surface casing (8.625") and the 5.5" production casing. The lack of communication between casings and the fact that the production casing pressure did not change when the bradenhead was opened indicates that this well has pressure integrity in with the production casing. In my opinion this well protects the health, safety, welfare, the environment and wildlife resources in the environment. It is requested that this bradenhead test be accepted has an alternative MIT as it has shown wellbore integrity and KT Resources has been unable to contract a workover rig due to high demand of equipment in the current price environment. If approved, this well will be turned into line.

I hereby certify all statements made in this form are, to the best of my knowledge, true, correct, and complete.

Test Performed By: <u>Levin Boulger</u>	Title: <u>Foreman</u>	Phone: <u>(970) 509-0256</u>
Signed: <u>Anthony Gale</u>	Title: <u>Co-owner</u>	Date: <u>12/31/2022</u>
Witnessed By: <u>na</u>	Title: _____	Agency: _____